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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/700,099	12/11/2000	Bernd Fischer	D078 1090 2645		
7590 06/24/2005			EXAMINER		
James F Vaughan			DICUS, TAMRA		
Womble Carlyl	le Sandridge & Rice				
PO Box 725388			ART UNIT	PAPER NUMBER	
Atlanta, GA 31139-9388			1774		
		DATE MAILED: 06/24/2005			

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application	on No.	Applicant(s)				
Office Action Summary		09/700,09	99	FISCHER ET AL.				
		Examiner	•	Art Unit				
		Tamra L.	Dicus	1774				
Period fo	- The MAILING DATE of this commu r Reply	nication appears on the	cover sheet with the	correspondence address				
THE N - Exten after S - If the - If NO - Failur Any re	DRTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN sions of time may be available under the provisions EX (6) MONTHS from the mailing date of this com period for reply specified above is less than thirty (i period for reply is specified above, the maximum s e to reply within the set or extended period for repl pely received by the Office later than three months d patent term adjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136(a). In no even munication. 30) days, a reply within the stat tatutory period will apply and w y will, by statute, cause the app	ent, however, may a reply be utory minimum of thirty (30) o ill expire SIX (6) MONTHS fro lication to become ABANDO	timely filed lays will be considered timely. om the mailing date of this communi NED (35 U.S.C. § 133).	ication.			
Status								
1)	Responsive to communication(s) fil	ed on 12 April 2005.						
·	This action is FINAL . 2b)⊠ This action is non-final.							
3)□	·							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
5)□ 6)⊠ 7)□	Claim(s) <u>1-6,9-15 and 25</u> is/are per 14a) Of the above claim(s) is/a Claim(s) is/are allowed. Claim(s) <u>1-6,9-15 and 25</u> is/are rejection(s) is/are objected to. Claim(s) are subject to restri	are withdrawn from co	nsideration.					
Application	on Papers							
9)[] 7	The specification is objected to by the	ne Examiner.						
10)	The drawing(s) filed on is/are	e: a)□ accepted or b)	objected to by the	e Examiner.				
	Applicant may not request that any obje	ection to the drawing(s) t	oe held in abeyance. S	See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) includin	•	• ,	•	` ,			
11)	The oath or declaration is objected t	o by the Examiner. No	ote the attached One	ce Action or form PTO-15)∠.			
Priority u	nder 35 U.S.C. § 119							
a)[Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies application from the Internation ee the attached detailed Office action	documents have beed documents have beed of the priority documents bareau (PCT Rul	en received. en received in Applica ents have been recei e 17.2(a)).	ation No ived in this National Stage	e			
Attachment	` '							
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summa Paper No(s)/Mail					
3) 🔲 Inform	nation Disclosure Statement(s) (PTO-1449 o No(s)/Mail Date		_	al Patent Application (PTO-152)				

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DETAILED ACTION

Acknowledgement of the RCE and cancellation of claims 7 and 8 is made.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-4, 6, and 11-13 are rejected under 35 U.S.C. 102(e) as being anticipated by USPN 6,254,956 to Kjellqvist et al.

Kjellqvist teaches a floor covering comprising at least one elastomer as a polymeric binder based on at least one polyolefin with a density < 0.910 g/cm³, and at least one grafted copolymer, wherein the grafted copolymer is maleic acid anhydride grafted HD polyethylene and co-crosslinking agent of an acrylate (col. 8, line 9, col. 10, lines 23-68, col. 11, lines 35-65, acrylic acid or acrylonitrile and any combination thereof, Table 2). Claims 1 and 12 are met.

Regarding claim 2, Table 2 of Kjellqvist teaches polyolefin density of 0.871, falling within Applicant's range of 0.85-0.892 g/cm³.

Regarding claim 3, Kjellqvist teaches polyolefin selected from very low density (VLD)

PE polymers, LLDPE (linear low density polyethylene) and LDPE (low density polyethylene)

are considered a synonymous selection.

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Regarding claim 4, Kjellqvist teaches a mixture of at least two ethylene copolymers because Kjellqvist requires at least one ethylene and a combination of MAH or PP copolymer blends (col. 11, lines 40-51) and further shows the melt flow index of 30 of a choice polymer in Table 2, meeting Applicant's range of >3 and density requirements are also met, Kjellqvist teaching choice polymer densities of 0.902 and 0.871 g/cm³, falling within Applicant's range of 0.89-0.91 and 0.86-0.88 g/cm³.

Regarding claim 6, Kjellqvist teaches copolymers of ethylene and octane (Table 2).

Regarding claims 11 and 13, Kjellqvist teaches the floor covering as claimed in Claim 1, wherein the elastomer is cross-linked with at least one cross-linking agent based on an organic peroxide and optionally a co-cross-linking agent and fillers and pigments (col. 12, line 13-col. 13, line 3).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 5, 9-10, and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 6,254,956 to Kjellqvist et al.

Kjellqvist essentially teaches the claimed invention above.

Regarding claims 5, 9-10, and 25, Kjellqvist teaches the same materials and recites weight percentages (Tables 1C, Table 2, and Tables 4-9), but does not explicitly recite a weight ratio of 4:1 to 3:2 (instant claim 5) or grafting degree percentage of 1-5 (instant claim 9), or the proportion of grafted copolymer to total weight of polymer binder is 5% to 25% (instant claims 10 and 25). However, because the same materials and mixtures are provided, one having ordinary skill in the art would expect the ranges to be an optimizable feature because Kjellqvist teaches many polymeric blends are varied to effectively change melt flow, density and other properties as cited in Tables 2-9, col. 10, lines 23-68, and col. 11, lines 35-65.

5. Claims 14-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 6,254,956 to Kjellqvist et al. as applied to claim 1 above, and further in view of USPN 6,399,689 to Scarlette.

Kjellqvist essentially teaches the claimed invention above.

Regarding claims 14 and 15, Kjellqvist does not show a mixture of filler comprising mineral intergrowths as in instant claim 14. Kjellqvist does not show a variable color pattern and a homogenous design as in instant claim 15.

Kjellqvist teaches a mixture of different fillers is employed and includes alumina (col. 12, lines 30-41).

Scarlette teaches fillers, pigments, and an alumina ceramic grain composition blended into any floor finishing composition for enhancing abrasion resistance without compromising flexibility, hardness, and adhesion (col. 2, lines 30-45, col. 3, lines 35-41) and specifically uses

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alumina to enhance physical properties when included with mineral particles and teaches aluminates having a crystal structure in platelet shape (col. 5, lines 25-49).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the elastomer floor covering of Kjellqvist to utilize a filler mixture of platelet-shaped and crystalline mineral intergrowths because Scarlette teaches such an alumina filler enhances physical properties and abrasion resistance without compromising flexibility, hardness, and adhesion (col. 3, lines 35-41 and col. 5, lines 25-49).

Further, It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the elastomer floor covering of Kjellqvist and Scarlette with pigments in a design and mineral intergrowth fillers of a homogenous construction since it is known that such a mixture provides decorative color and an effective filler for the flooring to provide for a consistent composition for the flooring as taught above.

Response to Arguments

6. Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tamra L. Dicus whose telephone number is 571-272-1519. The examiner can normally be reached on Monday-Friday, 7:00-4:30 p.m., alternate Fridays.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye can be reached on 571-272-3186. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tamra L. Dicus Examiner Art Unit 1774

June 17, 2005

HENA DYE SUPERVISORY PATENT EXAMINER

A.U.171+